

CLAIM AMENDMENTS

1 1. (Amended) A biocompatible, low viscosity, radiation
2 curable formulation, ~~especially for stereo, for use in medicinal~~
3 technology, ~~especially for producing earpieces,~~ comprising:
4 a) 55 to 95 weight percent of a monomeric or oligomeric
5 dimethacrylate ~~on the basis of bisphenol-A or bisphenol-F;~~
6 b) 0 to 20 weight percent of a urethane methacrylate with a
7 viscosity > 4 functionalities $n < 4$ and a viscosity < 15 Pa s;
8 c) 2 to 15 weight percent of a monomeric or aliphatic or
9 cycloaliphatic dimethacrylate with a viscosity < 5 Pa s;
10 d) 0 to 15 weight percent of a monofunctional methacrylate
11 with a viscosity < 3 Pa s;
12 e) 0.5 to 6 weight percent of one or a combination of
13 photoinitiators whose absorption lies in the wavelength range of the
14 laser beam used effective to form free radicals;
15 f) 0.001 to 2 weight percent of the free radical inhibitor
16 2,2,6,6-tetramethylpiperidine-1-yloxy (free radical) which can be present
17 in combination with known inhibitors;
18 g) 0 to 40 weight percent of fillers;
19 h) 0 to 5 weight percent of color pigments; and
20 i) 0 to 5 weight percent of usual additives like UV
21 stabilizers or flow additives, whereby the proportion of the components ~~as~~
22 to ~~h~~ together amounts to 100%.

1 2. (Amended) The formulation according to claim 1 comprising:

2 a) 60 to 90 weight percent of an n-fold ethoxylated bisphenol-
3 A-dimethacrylate with a degree of ethyloxilation ethoxylation of n < 10
4 or a mixture of n-fold ethoxylated bisphenol-A-dimethacrylate with a
5 degree of ethoxylation of n < 10;

6 b) 5 to 17 weight percent of an aliphatic or cycloaliphatic
7 urethane methacrylate with sensitivity a functionality of n < 4 and a
8 viscosity of < 10Pa s;

9 c) 3 to 10 weight percent of an aliphatic or cyclo-aliphatic
10 urethane dimethacrylate with [[and]] a viscosity < 3 Pa s;

11 d) 2 to 10 weight percent of a monofunctional methacrylate
12 with a viscosity of < 3 Pa s;

13 e) 1 to 4 weight percent of one or a combination of a
14 plurality of photoinitiators whose absorption is in the wavelength range
15 of the laser beam used effective to form free radicals;

16 f) 0.005 to 0.05 weight percent of the initiator free radical
17 inhibitor 2,2,6,6-tetramethylpiperidine-1-yloxy (free radical) optionally
18 in combination with known inhibitors;

19 g) [[0.20]] 0 to 20 weight percent of fillers;

20 h) 0 to 5 weight percent of color pigments;

21 i) 0.01 to 3 weight percent of conventional additives like UV
22 stabilizers or flow additives whereby the proportion of the components of
23 (a) to (h) amount together to 100%.